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- => s l1 and mutation L2 1 L1 AND MUTATION
- => d 12 ti abs ibib tot
- L2 ANSWER 1 OF 1 USPATFULL on STN
- TI Protein having pesticidal activity, dna encoding the protein, and noxious organism-controlling agent and method
- AB Noxious organism-controlling agent of the present invention is effective to pests that have acquired a resistance to conventional Bt agents and has activity on Coleoptera pests of which only several kinds have been reported.

Also, a novel microbe Bacillus thuringiensis serovar galleriae SDS502 strain having an ability of producing a toxic protein that can serve as an active ingredient of a noxious organism-controlling agent or a protein having a pesticidal activity produced by the strain, a protein having an amino acid sequence obtainable from the amino acid sequence of the protein by addition, deletion or substitution of a plurality of amino acids and having similar pesticidal activity, a DNA encoding the protein having pesticidal activity, a microbe transformed with the DNA, a plant transformed with the DNA and its seed, as well as a noxious organism-controlling agent and method are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT. ACCESSION NUMBER: 2003:24124 USPATFULL

TITLE: Protein having pesticidal activity, dna encoding the

protein, and noxious organism-controlling agent and

(10)

Asano, Shinichiro, Hokkaido, JAPAN INVENTOR(S):

Yamanaka, Satoshi, Ibaraki, JAPAN

Takeuchi, Katsuyoshi, Ibaraki, JAPAN

NUMBER KIND DATE \_\_\_\_\_\_

US 2003017967 A1 20030123 US 2002-89678 A1 20020403 PATENT INFORMATION: APPLICATION INFO.:

WO 2001-JP6660 20010802

> NUMBER DATE

JP 2000-236140 PRIORITY INFORMATION: 20000803

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W.,

WASHINGTON, DC, 20037

NUMBER OF CLAIMS: 11 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 1 Drawing Page(s)

1204 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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11 S (BACILLUS THURINGIENSIS SEROVAR GALLERIAE) L1

1 S L1 AND MUTATION L2

=> s l1 and variant

0 L1 AND VARIANT

=> s l1 and amino acid sequence

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FILE 'SCISEARCH' ENTERED AT 18:39:23 ON 23 JUN 2004 COPYRIGHT 2004 THOMSON ISI

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- => s 11 and mutation L2 1 L1 AND MUTATION
- => d 12 ti abs ibib tot
- L2 ANSWER 1 OF 1 USPATFULL on STN
- TI Protein having pesticidal activity, dna encoding the protein, and noxious organism-controlling agent and method
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 2003:24124 USPATFULL

TITLE: Protein having pesticidal activity, dna encoding the

protein, and noxious organism-controlling agent and

Asano, Shinichiro, Hokkaido, JAPAN INVENTOR(S):

Yamanaka, Satoshi, Ibaraki, JAPAN

Takeuchi, Katsuyoshi, Ibaraki, JAPAN

NUMBER KIND DATE -----US 2003017967 A1 20030123 US 2002-89678 A1 20020403 PATENT INFORMATION: APPLICATION INFO.: 20020403 (10)

WO 2001-JP6660 20010802

NUMBER DATE

PRIORITY INFORMATION: JP 2000-236140 20000803

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W.,

WASHINGTON, DC, 20037

NUMBER OF CLAIMS: 11 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 1 Drawing Page(s)

LINE COUNT: 1204

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, BIOSIS, JICST-EPLUS, CEN, CEABA-VTB, BIOBUSINESS, SCISEARCH, HCAPLUS' ENTERED AT 18:39:23 ON 23 JUN 2004

11 S (BACILLUS THURINGIENSIS SEROVAR GALLERIAE) L1

1 S L1 AND MUTATION L2

=> s l1 and variant

0 L1 AND VARIANT L3

=> s l1 and amino acid sequence

2 FILES SEARCHED...

3 FILES SEARCHED...

T.4 2 L1 AND AMINO ACID SEQUENCE

=> d l1 ti abs ibib tot

L1 ANSWER 1 OF 11 MEDLINE on STN

Mannose-specific lectin activity of parasporal proteins from a ΤI lepidoptera-specific Bacillus thuringiensis strain.

AΒ Lectin activity, agglutinating sheep erythrocytes, was associated with parasporal inclusion proteins from a Lepidoptera-specific isolate of Bacillus thuringiensis serovar

galleriae (H5ab). The activity was generated when parasporal inclusions were solubilized in an alkaline condition. Proteolytic processing was not required for generation of the lectin activity; the activity level was not affected by the presence/absence of the three proteases (trypsin, chymotrypsin, and proteinase K). SDS-PAGE analysis revealed that (1) alkali-solubilized parasporal inclusion proteins consisted of two major components of 130 kDa and 65 kDa, and (2) proteinase K treatment of alkali-solubilized proteins yielded a single major protein of 60 kDa. Lectin activity of our isolate was strongly inhibited by preincubation with D-mannose, but not with the six other monosaccharides: D-galactose, D-glucose, L-fucose, N-acetylD-glucosamine, N-acetyl- D-galactosamine, and N-acetylneuraminic acid. In contrast, D-mannose did not inhibit the in vivo larvicidal activity of the proteins against the silkworm, Bombyx mori.

ACCESSION NUMBER: 2002671006 MEDLINE DOCUMENT NUMBER: PubMed ID: 12432463

TITLE: Mannose-specific lectin activity of parasporal proteins from a lepidoptera-specific Bacillus thuringiensis strain.

AUTHOR: Wasano Naoya; Ohgushi Akira; Ohba Michio

CORPORATE SOURCE: Bioresources and Management Lab, Graduate School of

Agriculture, Kyushu University, Fukuoka 812-8581, Japan..

wasano@fitc.pref.fukuoka.jp

SOURCE: Current microbiology, (2003 Jan) 46 (1) 43-6.

Journal code: 7808448. ISSN: 0343-8651.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200304

ENTRY DATE: Entered STN: 20021115

Last Updated on STN: 20030501 Entered Medline: 20030430

L1 ANSWER 2 OF 11 USPATFULL on STN

TI Protein having pesticidal activity, dna encoding the protein, and

noxious organism-controlling agent and method

AB Noxious organism-controlling agent of the present invention is effective to pests that have acquired a resistance to conventional Bt agents and has activity on Coleoptera pests of which only several kinds have been reported.

Also, a novel microbe **Bacillus thuringiensis**serovar galleriae SDS502 strain having an ability of
producing a toxic protein that can serve as an active ingredient of a
noxious organism-controlling agent or a protein having a pesticidal
activity produced by the strain, a protein having an amino acid sequence
obtainable from the amino acid sequence of the protein by addition,
deletion or substitution of a plurality of amino acids and having
similar pesticidal activity, a DNA encoding the protein having
pesticidal activity, a microbe transformed with the DNA, a plant
transformed with the DNA and its seed, as well as a noxious
organism-controlling agent and method are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:24124 USPATFULL

TITLE: Protein having pesticidal activity, dna encoding the

protein, and noxious organism-controlling agent and

DAME

method

INVENTOR(S): Asano, Shinichiro, Hokkaido, JAPAN

Yamanaka, Satoshi, Ibaraki, JAPAN Takeuchi, Katsuyoshi, Ibaraki, JAPAN

KIND

	NUMBER		KIND	DATE	
PATENT INFORMATION: APPLICATION INFO.:	US	2003017967 2002-89678 2001-JP6660	A1 A1	20030123 20020403 20010802	(10)

MINADED

NUMBER DATE

PRIORITY INFORMATION: JP 2000-236140 20000803

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W.,

WASHINGTON, DC, 20037

NUMBER OF CLAIMS: 11 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 1 Drawing Page(s)

LINE COUNT: 1204

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 3 OF 11 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI A protein having insecticidal activity, a DNA encoding said protein, and an agent and a method for preventing harmful organisms

DGENE AN AAU80281 Protein

This invention relates to a crystalline protein comprising a fully AΒ defined sequence and the nucleotide sequence encoding this protein. The protein of the invention is an agent for preventing harmful organisms comprising Bacillus thuringiensis serovar

galleriae SDS502, its mutant or a microbe transformed by a DNA encoding the protein. This microbe can be used to produce a protein containing the protein, or containing a protein having insecticidal activity produced by the SDS502, its mutant or a transformed microbe, a microbe which is transformed by using the above DNA and produces the above protein having insecticidal activity, a plant or a seed transformed by using the above DNA, and Bacillus thuringiensis

serovar galleriae SDS502 producing a protein comprising

and producing a protein showing insecticidal activity. The protein of the invention may have insecticidal acivity. The agent is used for preventing Coleoptera larvae. This sequence represents the Bacillus thuringiensis insecticide protein of the invention.

ACCESSION NUMBER: AAU80281 Protein DGENE

A protein having insecticidal activity, a DNA encoding said TITLE:

protein, and an agent and a method for preventing harmful

19p

organisms

PATENT ASSIGNEE: (SDSB-N)SDS BIOTECH CORP.

PATENT INFO: JP 2002045186 A 20020212

APPLICATION INFO: JP 2000-236140 20000803 PRIORITY INFO: JP 2000-236140 20000803

DOCUMENT TYPE: Patent LANGUAGE: Japanese LANGUAGE.
OTHER SOURCE:

2002-356468 [39]

DESCRIPTION: Bacillus thuringiensis insecticidal protein.

ANSWER 4 OF 11 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L1

A protein having insecticidal activity, a DNA encoding said protein, and TI an agent and a method for preventing harmful organisms

 $M\Delta$ ABK51132 cDNA DGENE

AB This invention relates to a crystalline protein comprising a fully defined sequence and the nucleotide sequence encoding this protein. The protein of the invention is an agent for preventing harmful organisms comprising Bacillus thuringiensis serovar

galleriae SDS502, its mutant or a microbe transformed by a DNA encoding the protein. This microbe can be used to produce a protein containing the protein, or containing a protein having insecticidal activity produced by the SDS502, its mutant or a transformed microbe, a microbe which is transformed by using the above DNA and produces the above protein having insecticidal activity, a plant or a seed transformed by using the above DNA, and Bacillus thuringiensis

serovar galleriae SDS502 producing a protein comprising

and producing a protein showing insecticidal activity. The protein of the invention may have insecticidal acivity. The agent is used for preventing Coleoptera larvae. This sequence represents the cDNA encoding the Bacillus thuringiensis insecticide protein of the invention.

ACCESSION NUMBER: ABK51132 cDNA DGENE

TITLE: A protein having insecticidal activity, a DNA encoding said

protein, and an agent and a method for preventing harmful

organisms

PATENT ASSIGNEE: (SDSB-N)SDS BIOTECH CORP.

PATENT INFO: JP 2002045186 A 20020212 19p

APPLICATION INFO: JP 2000-236140 20000803 PRIORITY INFO: JP 2000-236140 20000803

DOCUMENT TYPE: Patent LANGUAGE: Japanese

OTHER SOURCE: 2002-356468 [39] CROSS REFERENCES: P-PSDB: AAU80281

DESCRIPTION: cDNA encoding Bacillus thuringiensis insecticidal protein.

L1 ANSWER 5 OF 11 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

TI Mannose-specific lectin activity of parasporal proteins from a lepidoptera-specific bacillus thuringiensis strain.

AB Lectin activity, agglutinating sheep erythrocytes, was associated with parasporal inclusion proteins from a Lepidoptera-specific isolate of Bacillus thuringiensis serovar

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ACCESSION NUMBER: 2003307307 EMBASE

TITLE: Mannose-specific lectin activity of parasporal proteins

from a lepidoptera-specific bacillus thuringiensis strain.

AUTHOR: Wasano N.; Ohgushi A.; Ohba M.

CORPORATE SOURCE: N. Wasano, Biotech. and Food Research Institute, Fukuoka

Industrial Technology Center, Kurume, Fukuoka 839-0861,

Japan. wasano@fitc.pref.fukuoka.jp

SOURCE: Current Microbiology, (2003) 46/1 (43-46).

Refs: 20

ISSN: 0343-8651 CODEN: CUMIDD

COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 004 Microbiology

LANGUAGE: English SUMMARY LANGUAGE: English

L1 ANSWER 6 OF 11 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI A protein having insecticidal activity, a DNA encoding said protein, and an agent and a method for preventing harmful organisms.

AN 2002-356468 [39] WPIDS

AB JP2002045186 A UPAB: 20020621

NOVELTY - A crystalline protein comprising a fully defined sequence (S1) of 1167 amino acids as given in the specification or a sequence in which comprises a plural of the amino acids in the (S1).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a DNA containing a base sequece encoding the above protein, an agent for preventing harmful organisms containing Bacillus

thuringiensis serovar galleriae SDS502, its mutant or (III) a microbe transformed by a DNA containing a base sequence encoding a protein comprising (S1) each producing a protein having containing (S1), or containing a protein having insecticidal activity produced by the SDS502, its mutant or a transformed microbe, a microbe which is transformed by using the above DNA and produces the above protein having insecticidal activity, a plant or a seed transformed by using the

above DNA, and Bacillus thuringiensis serovar galleriae SDS502 producing a protein comprising (S1) and producing a protein showing insecticidal activity.

ACTIVITY - Insecticidal.

MECHANISM OF ACTION - None given.

USE - The agent is used for preventing Coleoptera larvae.

Dwg.0/3

ACCESSION NUMBER: 2002-356468 [39] WPIDS

DOC. NO. CPI: C2002-101492

TITLE: A protein having insecticidal activity, a DNA encoding

said protein, and an agent and a method for preventing

harmful organisms.

DERWENT CLASS: C06 D16

INVENTOR(S): ASANO, S; TAKEUCHI, K; YAMANAKA, S

PATENT ASSIGNEE(S): (SDSB-N) SDS BIOTECH CORP; (ASAN-I) ASANO S; (TAKE-I)

TAKEUCHI K; (YAMA-I) YAMANAKA S

COUNTRY COUNT: 2

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

JP 2002045186 A 20020212 (200239)\* 19
US 2003017967 A1 20030123 (200310)

#### APPLICATION DETAILS:

PATENT	, NO	KIND	APPLICATION		
JP 200	2045186	A	JP	2000-236140	20000803
US 200	3017967	A1	WO	2001-JP6660	20010802
			US	2002-89678	20020403

PRIORITY APPLN. INFO: JP 2000-236140 20000803

- L1 ANSWER 7 OF 11 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
- TI Mannose-specific lectin activity of parasporal proteins from a Lepidoptera-specific Bacillus thuringiensis strain.
- AB Lectin activity, agglutinating sheep erythrocytes, was associated with parasporal inclusion proteins from a Lepidoptera-specific isolate of Bacillus thuringiensis serovar

galleriae (H5ab). The activity was generated when parasporal inclusions were solubilized in an alkaline condition. Proteolytic processing was not required for generation of the lectin activity; the activity level was not affected by the presence/absence of the three proteases (trypsin, chymotrypsin, and proteinase K). SDS-PAGE analysis revealed that (1) alkali-solubilized parasporal inclusion proteins consisted of two major components of 130 kDa and 65 kDa, and (2) proteinase K treatment of alkali-solubilized proteins yielded a single major protein of 60 kDa. Lectin activity of our isolate was strongly inhibited by preincubation with D-mannose, but not with the six other monosaccharides: D-galactose, D-glucose, L-fucose, N-acetyl-D-glucosamine, N-acetyl-D-galactosamine, and N-acetylneuraminic acid. In contrast, D-mannose did not inhibit the in vivo larvicidal activity of the proteins against the silkworm, Bombyx mori.

ACCESSION NUMBER: 2003:45928 BIOSIS
DOCUMENT NUMBER: PREV200300045928

TITLE: Mannose-specific lectin activity of parasporal proteins

from a Lepidoptera-specific Bacillus thuringiensis strain.

AUTHOR(S): Wasano, Naoya [Reprint Author]; Ohgushi, Akira; Ohba,

Michio

CORPORATE SOURCE: Biotechnology and Food Research Institute, Fukuoka

Industrial Technology Center, Kurume, Fukuoka, 839-0861,

Japan

wasano@fitc.pref.fukuoka.jp

SOURCE: Current Microbiology, (January 2003) Vol. 46, No. 1, pp.

43-46. print.

CODEN: CUMIDD. ISSN: 0343-8651.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 15 Jan 2003

Last Updated on STN: 15 Jan 2003

L1 ANSWER 8 OF 11 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN Study on the isolation and identification of Bacillus thuringiensis in soil samples from Yakushima Island (II) Insecticidal activity and the identification of cry genes.

We previously reported that 53 B. thuringiensis Isolates in soils from AB Yakushima Island were serologically investigated. In the present study, the insecticidal activity of these strains against the silkworm Bombyx mori and the mosquito larvae Aedes japonicus was investigated and the identification of cry genes in these strains was conducted using the PCR method. Oligonucleotide primers used for making DNA probes were crylAa, cry1Ab, cry1Ac, cry1Ba, cry1Ca, cry1Da, cry1Ea, cry2Aa, cry4Aa, cry1Ba, crylOAa and cry 11Aa genes, depending on their specific nucleotide domains. Cry gene profiles of 24 serovar kurstaki strains were the same for crylAa, crylAb and crylAc with a type strain of HD-1, except for cry1Aa the Jano9-2-2 strain composed of cry1Aa and cry1Ab. All of the strains included the cry2Aa gene. In the 14 strains of serovar galleriae, all of the strains included the same crylAb and cry2Aa genes as the type strain. In the other serovar from Yakushima Island, thuringiensis, kenyae and israelensis strains displayed different profiles from the type strains used in this experiment. Serovar kurstaki Jano9-2-2 revealed high insecticidal activity against silkworm larvae compared with the control strain HD-1. Serovar israelensis Aiko2-1-1 also revealed high activity against the Aedes japonicus larvae compared with the type strain. These two strains seem to include novel cry genes.

ACCESSION NUMBER: 1999:495838 BIOSIS DOCUMENT NUMBER: PREV199900495838

TITLE: Study on the isolation and identification of Bacillus

thuringiensis in soil samples from Yakushima Island (II)
Insecticidal activity and the identification of cry genes.

AUTHOR(S): Kikuta, Harunori [Reprint author]; Kuroiwa, Manabu [Reprint

author]; Takagi, Ryuichiro [Reprint author]; Iizuka,

Toshihiko

CORPORATE SOURCE: Rakuno Gakuen University, Ebetsu, 069-8501, Japan

SOURCE: Journal of Sericultural Science of Japan, (June, 1999) Vol.

68, No. 3, pp. 225-235. print. CODEN: NISZAQ. ISSN: 0037-2455.

DOCUMENT TYPE: Article LANGUAGE: Japanese

TI

ENTRY DATE: Entered STN: 23 Nov 1999

Last Updated on STN: 23 Nov 1999

L1 ANSWER 9 OF 11 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

Mannose-specific lectin activity of parasporal proteins from a

Lepidoptera-specific Bacillus thuringiensis strain

AB Lectin activity, agglutinating sheep erythrocytes, was associated with parasporal inclusion proteins from a Lepidoptera-specific isolate of Bacillus thuringiensis serovar

galleriae (1-15ab). The activity was generated when parasporal inclusions were solubilized in an alkaline condition. Proteolytic processing was not required for generation of the lectin activity; the activity level was not affected by the presence/absence of the three proteases (trypsin, chymotrypsin, and proteinase K). SDS-PAGE analysis revealed that (1) alkali-solubilized parasporal inclusion proteins consisted of two major components of 130 kDa and 65 kDa, and (2) proteinase K treatment of alkali-solubilized proteins yielded a single

major protein of 60 kDa. Lectin activity of our isolate was strongly inhibited by preincubation with D-mannose, but not with the six other monosaccharides: D-galactose, D-glucose, L-fucose, N-acetyl-D-glucosamine, N-acetyl-D-galactosamine, and N-acetylneuraminic acid. In contrast, D-mannose did not inhibit the in vivo larvicidal activity of the proteins

against the silkworm, Bombyx mori.
ACCESSION NUMBER: 2002:979026 SCISEARCH

THE GENUINE ARTICLE: 620YZ

TITLE: Mannose-specific lectin activity of parasporal proteins

from a Lepidoptera-specific Bacillus thuringiensis strain

AUTHOR: Wasano N (Reprint); Ohqushi A; Ohba M

CORPORATE SOURCE: Fukuoka Ind Technol Ctr, Biotechnol & Food Res Inst,

Fukuoka 8390861, Japan (Reprint); Kyushu Univ, Grad Sch Agr, Bioresources & Management Lab, Fukuoka 8128581, Japan

COUNTRY OF AUTHOR: Japan

SOURCE: CURRENT MICROBIOLOGY, (JAN 2003) Vol. 46, No. 1, pp. 43-46

Publisher: SPRINGER-VERLAG, 175 FIFTH AVE, NEW YORK, NY

10010 USA.

ISSN: 0343-8651. Article; Journal

DOCUMENT TYPE: LANGUAGE:

English

REFERENCE COUNT:

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L1 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Mannose-specific lectin activity of parasporal proteins from a Lepidoptera-specific Bacillus thuringiensis strain

AB Lectin activity, agglutinating sheep erythrocytes, was associated with parasporal inclusion proteins from a Lepidoptera-specific isolate of Bacillus thuringiensis serovar

galleriae (H5ab). The activity was generated when parasporal inclusions were solubilized in an alkaline condition. Proteolytic processing was not required for generation of the lectin activity; the activity level was not affected by the presence/absence of the three proteases (trypsin, chymotrypsin, and proteinase K). SDS-PAGE anal. revealed that (1) alkali-solubilized parasporal inclusion proteins consisted of two major components of 130 kDa and 65 kDa, and (2) proteinase K treatment of alkali-solubilized proteins yielded a single major protein of 60 kDa. Lectin activity of our isolate was strongly inhibited by preincubation with D-mannose, but not with the six other monosaccharides: D-galactose, D-glucose, L-fucose, N-acetyl-D-glucosamine, N-acetyl-D-galactosamine, and N-acetylneuraminic acid. In contrast, D-mannose did not inhibit the in vivo larvicidal activity of the proteins against the silkworm, Bombyx mori.

ACCESSION NUMBER: 2002:877968 HCAPLUS

DOCUMENT NUMBER: 138:317200

TITLE: Mannose-specific lectin activity of parasporal

proteins from a Lepidoptera-specific Bacillus

thuringiensis strain

AUTHOR(S): Wasano, Naoya; Ohgushi, Akira; Ohba, Michio

CORPORATE SOURCE: Graduate School of Agriculture, Bioresources and

Management Lab, Kyushu University, Fukuoka, 812-8581,

Japan

SOURCE: Current Microbiology (2003), 46(1), 43-46

CODEN: CUMIDD; ISSN: 0343-8651

PUBLISHER: Springer-Verlag New York Inc.

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Novel crystal protein from Bacillus thuringiensis

serovar galleriae strain SDS502 toxic to scarabaeid insects, gene, use as insecticide

AB A novel crystal protein having insecticidal activity from Bacillus thuringiensis serovar galleriae strain SDS502, its gene, and use as insecticide, are disclosed. A method of protecting plants from pests by transforming with the gene is claimed. Plants and seeds transformed with the gene are claimed. The crystal protein was

effective against Anomala cuprea, Anomala orientalis, and Popilliae

japonica.

ACCESSION NUMBER: 2002:112820 HCAPLUS

DOCUMENT NUMBER:

136:162376

TITLE:

Novel crystal protein from Bacillus

thuringiensis serovar

galleriae strain SDS502 toxic to scarabaeid

insects, gene, use as insecticide

INVENTOR (S):

Asano, Shinichiro; Yamanaka, Satoshi; Takeuchi,

Katsuyoshi

PATENT ASSIGNEE(S):

SDS Biotech Corp., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

=> e asano, s/au

**E**1

Patent

ASANO ZENSUKE/AU

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

1

PATENT INFORMATION:

PATENT NO.	PATENT NO. KIND I		APPLICATION NO.	DATE
JP 2002045186	A2	20020212	JP 2000-236140	20000803
US 2003017967	<b>A1</b>	20030123	US 2002-89678	20020403
PRIORITY APPLN. INFO.	:		JP 2000-236140 A	20000803
			WO 2001-JP6660 W	20010802

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SOURCE:

2 "TAKEUCHIA K"/AU L5

=> d 15 ti abs ibib tot

ANSWER 1 OF 2 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. T.5 on STN

ТT Management of acute chylothorax with hydrops fetalis diagnosed in the third trimester of pregnancy.

AB A fetus with large pleural effusion and hydrops fetalis diagnosed in the third trimester was successfully treated with prompt vaginal delivery followed by drainage of the pleural cavity, after confirmation of congenital chylothorax and re-expansion of the lung with prenatal thoracentesis.

ACCESSION NUMBER: 1999343296 EMBASE

Management of acute chylothorax with hydrops fetalis TITLE:

diagnosed in the third trimester of pregnancy.

Takeuchia K.; Moriyama T.; Oomori S.; Masuko K.; **AUTHOR:** 

Maruo T.

CORPORATE SOURCE: Dr. K. Takeuchia, Department of Obstetrics Gynecology,

Saiseikai Hospital, 5-1-1 Nakamachi Fujiwaradai, Kitaku,

651-1302 Kobe, Japan. kyousuke@skyblue.ocn.ne.jp Fetal Diagnosis and Therapy, (1999) 14/5 (264-265).

Refs: 7

ISSN: 1015-3837 CODEN: FDTHES

COUNTRY: Switzerland DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 007 Pediatrics and Pediatric Surgery

> 010 Obstetrics and Gynecology

LANGUAGE: English SUMMARY LANGUAGE: English

ANSWER 2 OF 2 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN L5 Effect of allergen-specific immunotherapy on interleukin-4, interleukin-5

and interferon gamma mRNA expression in the nasal mucoas of rats with

allergic rhinitis.

To elucidate the mechanism of immunotherapy, we tested the effect of AB ovalbumin and ovalbumin-pullulan conjugate immunotherapy on the expression of interleukin (IL)-4, IL-5 and interferon-gamma (IFN-gamma) mRNA in the nasal mucosa of sensitized rats. Forty-five rats were injected with ovalbumin intraperitoneally on three consecutive days and later were exposed to ovalbumin aerosol. The rats were injected intradermally, on six consecutive days, with saline, ovalbumin or ovalbumin-pullulan conjugate. Later, nasal mucosa was obtained and reverse transcription-polymerase chain reaction (RT-PCR) was performed. Nasal responses and specific immunoglobulin E (IgE) were measured. Although the immunotherapy significantly decreased nasal airway resistance, dye leakage and histamine content in nasal irrigation after allergen challenge, no significant difference was found in IL-4 and IL-5 mRNA expression or in specific IgE level among the three groups. We conclude that in this allergic model, the improvement of nasal responses after immunotherapy was the result of a mechanism other than decrease of T-helper 2 (Th2) cytokines.

ACCESSION NUMBER: 1999:68498 BIOSIS DOCUMENT NUMBER: PREV199900068498

TITLE: Effect of allergen-specific immunotherapy on interleukin-4,

interleukin-5 and interferon gamma mRNA expression in the

nasal mucoas of rats with allergic rhinitis.

AUTHOR(S): El-Naggar, M. M.; Ukai, K.; Takeuchia, K.;

Sakakura, Yasuo [Reprint author]

CORPORATE SOURCE: Dep. Otohinolaryngology, Mie University School Medicine,

2-174 Edobashi, Tsu, Mie 514-8507, Japan

SOURCE: Scandinavian Journal of Immunology, (Dec., 1998) Vol. 48,

No. 6, pp. 629-634. print.

CODEN: SJIMAX. ISSN: 0300-9475.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 16 Feb 1999

Last Updated on STN: 16 Feb 1999

#### => d his

L1

(FILE 'HOME' ENTERED AT 18:36:10 ON 23 JUN 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, BIOSIS, JICST-EPLUS, CEN, CEABA-VTB, BIOBUSINESS, SCISEARCH, HCAPLUS' ENTERED AT 18:39:23 ON 23 JUN 2004

11 S (BACILLUS THURINGIENSIS SEROVAR GALLERIAE)

L2 1 S L1 AND MUTATION
L3 0 S L1 AND VARIANT

L4 2 S L1 AND AMINO ACID SEQUENCE

E ASANO, S/AU E YAMANAKA, S/AU E TAKEUCHI, K/AU

L5 2 S E7

=> s pesticide

L6 203958 PESTICIDE

=> s transform microbe and 16

L7 0 TRANSFORM MICROBE AND L6

=> s 16 and (SDS502)

L8 1 L6 AND (SDS502)

=> d 18 ti abs ibib tot

L8 ANSWER 1 OF 1 USPATFULL on STN

TI Protein having pesticidal activity, dna encoding the protein, and noxious organism-controlling agent and method

AB Noxious organism-controlling agent of the present invention is effective to pests that have acquired a resistance to conventional Bt agents and has activity on Coleoptera pests of which only several kinds have been reported.

Also, a novel microbe Bacillus thuringiensis serovar galleriae SDS502 strain having an ability of producing a toxic protein that can serve as an active ingredient of a noxious organism-controlling agent or a protein having a pesticidal activity produced by the strain, a protein having an amino acid sequence obtainable from the amino acid sequence of the protein by addition, deletion or substitution of a plurality of amino acids and having similar pesticidal activity, a DNA encoding the protein having pesticidal activity, a microbe transformed with the DNA, a plant transformed with the DNA and its seed, as well as a noxious organism-controlling agent and method are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:24124 USPATFULL

TITLE: Protein having pesticidal activity, dna encoding the

protein, and noxious organism-controlling agent and

method

INVENTOR(S): Asano, Shinichiro, Hokkaido, JAPAN

Yamanaka, Satoshi, Ibaraki, JAPAN Takeuchi, Katsuyoshi, Ibaraki, JAPAN

APPLICATION INFO.: US 2002-89678 A1 20020403 (10)

WO 2001-JP6660 20010802

NUMBER DATE

PRIORITY INFORMATION: JP 2000-236140 20000803

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W.,

WASHINGTON, DC, 20037

NUMBER OF CLAIMS: 11 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 1 Drawing Page(s)

LINE COUNT: 1204

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

#### => d his

(FILE 'HOME' ENTERED AT 18:36:10 ON 23 JUN 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, BIOSIS, JICST-EPLUS, CEN, CEABA-VTB, BIOBUSINESS, SCISEARCH, HCAPLUS' ENTERED AT 18:39:23 ON 23 JUN 2004

L1 11 S (BACILLUS THURINGIENSIS SEROVAR GALLERIAE)

L2 1 S L1 AND MUTATION
L3 0 S L1 AND VARIANT

L4 2 S L1 AND AMINO ACID SEQUENCE

E ASANO, S/AU E YAMANAKA, S/AU E TAKEUCHI, K/AU

L5 2 S E7

L6 203958 S PESTICIDE

0 S TRANSFORM MICROBE AND L6

L8 1 S L6 AND (SDS502)

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L9 1 L6 AND L1

=> d 19 ti abs ibib tot

L9 ANSWER 1 OF 1 USPATFULL on STN

TI Protein having pesticidal activity, dna encoding the protein, and noxious organism-controlling agent and method

AB Noxious organism-controlling agent of the present invention is effective to pests that have acquired a resistance to conventional Bt agents and has activity on Coleoptera pests of which only several kinds have been reported.

Also, a novel microbe Bacillus thuringiensis serovar galleriae SDS502 strain having an ability of producing a toxic protein that can serve as an active ingredient of a

noxious organism-controlling agent or a protein having a pesticidal activity produced by the strain, a protein having an amino acid sequence obtainable from the amino acid sequence of the protein by addition, deletion or substitution of a plurality of amino acids and having similar pesticidal activity, a DNA encoding the protein having pesticidal activity, a microbe transformed with the DNA, a plant transformed with the DNA and its seed, as well as a noxious organism-controlling agent and method are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:24124 USPATFULL

Protein having pesticidal activity, dna encoding the TITLE:

protein, and noxious organism-controlling agent and

method

INVENTOR (S): Asano, Shinichiro, Hokkaido, JAPAN

Yamanaka, Satoshi, Ibaraki, JAPAN Takeuchi, Katsuyoshi, Ibaraki, JAPAN

KIND DATE NUMBER -----US 2003017967 A1 20030123 US 2002-89678 A1 20020403 (10) WO 2001-JP6660 20010802 PATENT INFORMATION: APPLICATION INFO.: 20010802

> NUMBER DATE ------

PRIORITY INFORMATION: JP 2000-236140 20000803

PRIORITY INFORMATION

DOCUMENT TYPE: Utility

APPLICATION

LEGAL REPRESENTATIVE: SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W.,

WASHINGTON, DC, 20037

NUMBER OF CLAIMS: 11 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 1 Drawing Page(s)

LINE COUNT: 1204

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

#### => d his

L1

(FILE 'HOME' ENTERED AT 18:36:10 ON 23 JUN 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, BIOSIS, JICST-EPLUS, CEN, CEABA-VTB, BIOBUSINESS, SCISEARCH, HCAPLUS' ENTERED AT 18:39:23 ON 23 JUN 2004

11 S (BACILLUS THURINGIENSIS SEROVAR GALLERIAE)

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2 S L1 AND AMINO ACID SEQUENCE L4

> E ASANO, S/AU E YAMANAKA, S/AU E TAKEUCHI, K/AU

L5 2 S E7

203958 S PESTICIDE L6

L7 0 S TRANSFORM MICROBE AND L6

1 S L6 AND (SDS502) L8

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1535 L6 AND MUTANT L10

=> s 110 and variant

L11 453 L10 AND VARIANT => s lll and function Ll2 251 Lll AND FUNCTION

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'(' followed by an operator.

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LOGOFF? (Y)/N/HOLD:n

Page 1 of 1

## **Refine Search**

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galleriae and L11	15

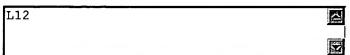
US Pre-Grant Publication Full-Text Database US Patents Full-Text Database

Database:

US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index

IBM Technical Disclosure Bulletins

Search:











## Search History

DATE: Wednesday, June 23, 2004 Printable Copy Create Case

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DB=US	SPT; PLUR=YES; OP	=OR	
<u>L12</u>	galleriae and L11	15	<u>L12</u>
<u>L11</u>	serovar and L10	55	<u>L11</u>
<u>L10</u>	lepidoptera and L9	1005	<u>L10</u>
<u>L9</u>	ll and L8	20035	<u>L9</u>
<u>L8</u>	bacillus thuringiensis	22795	<u>L8</u>
<u>L7</u>	15 and 11	3	<u>L7</u>
<u>L6</u>	L5 and 13	0	<u>L6</u>
<u>L5</u>	L4 and 12	5	<u>L5</u>
<u>L4</u>	Yamanaka.in.	1779	<u>L4</u>
<u>L3</u>	Takeuchi.in.	4891	<u>L3</u>
<u>L2</u>	Asano.in.	2177	<u>L2</u>
<u>L1</u>	pesticidal activity	373367	<u>L1</u>

**END OF SEARCH HISTORY** 

## **Hit List**



#### Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 4800085 A

L7: Entry 1 of 3

File: USPT

Jan 24, 1989

US-PAT-NO: 4800085

DOCUMENT-IDENTIFIER: US 4800085 A

TITLE: Slow-release composite and process for producing the same

DATE-ISSUED: January 24, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshida; Masaru	Gunma			JP
Asano; Masaharu	Gunma			JP
Kaetsu; Isao	Gunma			JP
Nakai; Katsuyuki	Gunma			JP
Yamanaka; Hidetoshi	Gunma			JP
Shida; Keizo	Gunma			JP
Shiraishi; Akira	Tokyo			JP

US-CL-CURRENT: 424/462; 264/331.14, 424/468, 424/472, 514/16, 514/17, 930/130, 930/20, 930/21

Full   Title   Citation   Front   Review   Classification   Date   Reference   Sequences   Attachments   Claims   KWC	Draw, D	KWIC	Claims	eness Attachments.	<b>SEMISION</b>	Reference	Date	Classification	Review	Front	Citation	Title	Full
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#### ☐ 2. Document ID: US 4652443 A

L7: Entry 2 of 3

File: USPT

Mar 24, 1987

US-PAT-NO: 4652443

DOCUMENT-IDENTIFIER: US 4652443 A

TITLE: Slow-release composite and process for producing the same

DATE-ISSUED: March 24, 1987

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY
Yoshida; Masaru Gunma JP
Asano; Masaharu Gunma JP

heb bgeeef efg ef be

Kaetsu; Isao	Gunma	JP
Nakai; Katsuyuki	Gunma	JP
Yamanaka; Hidetoshi	Gunma	JP
Shida; Keizo	Gunma	JP
Shiraishi; Akira	Tokyo	JP

US-CL-CURRENT:  $\underline{424}/\underline{487}$ ;  $\underline{514}/\underline{15}$ ,  $\underline{514}/\underline{965}$ ,  $\underline{930}/\underline{130}$ ,  $\underline{930}/\underline{20}$ ,  $\underline{930}/\underline{21}$ 

Full Title Citation Front Review C	lassification   Date   Reference   Sequences   A	<mark>ltáchments:</mark> Claims   KWC   Draw. D
☐ 3. Document ID: US 4584	136 A	
L7: Entry 3 of 3	File: USPT	Apr 22, 1986

US-PAT-NO: 4584136

DOCUMENT-IDENTIFIER: US 4584136 A

TITLE: Process for preparing Estracyt compounds having a carcinostatic bound

thereto

DATE-ISSUED: April 22, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshida; Masaru	Gunma			JP
Asano; Masaharu	Gunma			JP
Kaetsu; Isao	Gunma			JP
<u>Yamanaka</u> ; Hidetoshi	Gunma			JP
Nakai; Katsuyuki	Gunma			JP
Yuasa; Hisako	Gunma			JP
Shida; Keizo	Gunma			JP

US-CL-CURRENT:  $\underline{536/5}$ ;  $\underline{536/27.1}$ ,  $\underline{540/113}$ ,  $\underline{540/5}$ ,  $\underline{552/506}$ ,  $\underline{552/626}$ 

Full	Title Citatio	n Front	Review	Classification	Date	Reference	Sequences	Attactore	claims	KMC	Draw. D
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	L5 and L	1								3	

Display Format: CIT Change Format

Previous Page Next Page Go to Doc#

## **Hit List**



#### **Search Results** - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 6003939 A

L5: Entry 1 of 5 File: USPT

Dec 21, 1999

US-PAT-NO: 6003939

DOCUMENT-IDENTIFIER: US 6003939 A

TITLE: Side air bag-carrying seat structure

DATE-ISSUED: December 21, 1999

INVENTOR-INFORMATION:

CITY	STATE	ZIP CODE	COUNTRY
Toyota			JP
Toyota			JP
Toyota			JР
Toyota			JP
Hikinan			JP
Yokohama			JP
	Toyota Toyota Toyota Toyota Hikinan	Toyota Toyota Toyota Toyota Hikinan	Toyota Toyota Toyota Toyota Hikinan

US-CL-CURRENT: 297/216.13; 297/452.6

Full	Title	Citation	Front	Review	Classification	Date	Reference	sequences	Altechmenta	Claims	KAMC	Draw, D

#### ☐ 2. Document ID: US 5311924 A

L5: Entry 2 of 5

File: USPT

May 17, 1994

US-PAT-NO: 5311924

DOCUMENT-IDENTIFIER: US 5311924 A

TITLE: Molten metal level control method and device for continuous casting

DATE-ISSUED: May 17, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Asano; Kazuya	Chiba				JP
Kaji; Takayuki	Chiba				JP
Arai; Kazuo	Chiba				JP

h eb bgeeef efg ef be

Tanaka; Shuji	Chiba	JP
Ibaraki; Michio	Chiba	JP
Nabeshima; Yuki	Chiba	JP
Yamanaka; Hiromitsu	Chiba	JP
Takashi; Masaki	Chiba	JP
Moriwaki; Saburo	Chiba	JP
Sugizawa; Mototatsu	Chiba	JP
Nomura; Hiroshi	Chiba	JP
Onishi; Masayuki	Chiba	JP

US-CL-CURRENT: <u>164/453</u>; <u>164/155.1</u>

☐ 3. Document ID: US 4800085 A

L5: Entry 3 of 5

File: USPT

Jan 24, 1989

US-PAT-NO: 4800085

DOCUMENT-IDENTIFIER: US 4800085 A

TITLE: Slow-release composite and process for producing the same

DATE-ISSUED: January 24, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshida; Masaru	Gunma			JP
Asano; Masaharu	Gunma			JP
Kaetsu; Isao	Gunma			JP
Nakai; Katsuyuki	Gunma			JP
Yamanaka; Hidetoshi	Gunma			JP
Shida; Keizo	Gunma			JP
Shiraishi; Akira	Tokyo			JP

US-CL-CURRENT:  $\underline{424}/\underline{462}$ ;  $\underline{264}/\underline{331.14}$ ,  $\underline{424}/\underline{468}$ ,  $\underline{424}/\underline{472}$ ,  $\underline{514}/\underline{16}$ ,  $\underline{514}/\underline{17}$ ,  $\underline{930}/\underline{130}$ ,  $\underline{930}/\underline{20}$ ,  $\underline{930}/\underline{21}$ 

Full   Title   Citation   Front   Re	view Classification	Date Reference	Sequences:	Attachmentsv	Claims	KWAC	Draw D
☐ 4. Document ID: U	S 4652443 A						···
L5: Entry 4 of 5		File: US	PT		Mar	24,	1987

US-PAT-NO: 4652443

DOCUMENT-IDENTIFIER: US 4652443 A

TITLE: Slow-release composite and process for producing the same

h eb bgeeef efg ef be

DATE-ISSUED: March 24, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshida; Masaru	Gunma			JP
Asano; Masaharu	Gunma			JP
Kaetsu; Isao	Gunma			JP
Nakai; Katsuyuki	Gunma			JP
Yamanaka; Hidetoshi	Gunma			JP
Shida; Keizo	Gunma			JP
Shiraishi; Akira	Tokyo			JP

US-CL-CURRENT: 424/487; 514/15, 514/965, 930/130, 930/20, 930/21

Full   Title	Citation F	Front   Review	Classification	Date Referen	ce Sequences Aliach	ments: Claims	KWIC	Draws D
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□ 5.	Document	t ID: US 45	84136 A					
L5: Entr	y 5 of 5			File: U	SPT	Apr	22,	1986

US-PAT-NO: 4584136

DOCUMENT-IDENTIFIER: US 4584136 A

TITLE: Process for preparing Estracyt compounds having a carcinostatic bound

thereto

DATE-ISSUED: April 22, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshida; Masaru	Gunma			JP
Asano; Masaharu	Gunma			JP
Kaetsu; Isao	Gunma			JP
Yamanaka; Hidetoshi	Gunma			JP
Nakai; Katsuyuki	Gunma			JP
Yuasa; Hisako	Gunma			JP
Shida; Keizo	Gunma			JP

US-CL-CURRENT:  $\underline{536/5}$ ;  $\underline{536/27.1}$ ,  $\underline{540/113}$ ,  $\underline{540/5}$ ,  $\underline{552/506}$ ,  $\underline{552/626}$ 

Full	Title Ci	tation	Front	Review	Classification	Date	Reference	Sequence	s Alisteland	nts Claims	KWIC	Drawt D
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## **Refine Search**

#### Search Results -

Terms	Documents
galleriae and L11	15

US Pre-Grant Publication Full-Text Database US Patents Full-Text Database

Database:

US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins

Search:

L12 Refine Search







## **Search History**

DATE: Wednesday, June 23, 2004 Printable Copy Create Case

Set Name side by side		Hit Count	Set Name result set
-	SPT; PLUR=YES; OP	=OR	
<u>L12</u>	galleriae and L11	15	<u>L12</u>
<u>L11</u>	serovar and L10	55	<u>L11</u>
<u>L10</u>	lepidoptera and L9	1005	<u>L10</u>
<u>L9</u>	11 and L8	20035	<u>L9</u>
<u>L8</u>	bacillus thuringiensis	22795	<u>L8</u>
<u>L7</u>	15 and 11	3	<u>L7</u>
<u>L6</u>	L5 and 13	0	<u>L6</u>
<u>L5</u>	L4 and l2	5	<u>L5</u>
<u>L4</u>	Yamanaka.in.	1779	<u>L4</u>
<u>L3</u>	Takeuchi.in.	4891	<u>L3</u>
<u>L2</u>	Asano.in.	2177	<u>L2</u>
<u>L1</u>	pesticidal activity	373367	<u>L1</u>

#### **END OF SEARCH HISTORY**

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## **Hit List**



#### Search Results - Record(s) 1 through 10 of 15 returned.

☐ 1. Document ID: US 6689743 B1

L12: Entry 1 of 15

File: USPT

Feb 10, 2004

US-PAT-NO: 6689743

DOCUMENT-IDENTIFIER: US 6689743 B1

TITLE: Bacillus thuringiensis isolates and toxins

DATE-ISSUED: February 10, 2004

INVENTOR-INFORMATION:

CITY NAME STATE ZIP CODE COUNTRY Payne; Jewel Davis CA CA Narva; Kenneth E. San Diego Uyeda; Kendrick Akira San Diego CA Stalder; Christine Julie San Diego CA Michaels; Tracy Ellis Ames ΙA

US-CL-CURRENT: 514/2; 530/350, 536/23.71

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences 4t	achments	Claims	KONC	Draw, I
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#### ☐ 2. Document ID: US 6555655 B1

L12: Entry 2 of 15

File: USPT

Apr 29, 2003

US-PAT-NO: 6555655

DOCUMENT-IDENTIFIER: US 6555655 B1

TITLE: Coleopteran-toxic polypeptide compositions and insect-resistant transgenic

plants

DATE-ISSUED: April 29, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Rupar; Mark J. Wilmington DE
Donovan; William P. Levittown PA
Chu; Chih-Rei Exton PA
Pease; Elizabeth Danville PA

h eb bgeeef efg ef be

Tan; Yuping Fremont CA
Slaney; Annette C. Burlington NJ
Malvar; Thomas M. Troy MO
Baum; James A. Webster Groves MO

US-CL-CURRENT: 530/350; 536/23.71

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMIC | Draw De

☐ 3. Document ID: US 6500617 B1

L12: Entry 3 of 15

File: USPT

Dec 31, 2002

US-PAT-NO: 6500617

DOCUMENT-IDENTIFIER: US 6500617 B1

TITLE: Optimization of pest resistance genes using DNA shuffling

DATE-ISSUED: December 31, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Stemmer; Willem P. C. Los Gatos CA
Castle; Linda A. Mountain View CA
Yamamoto; Takashi Fremont CA

US-CL-CURRENT: 435/6; 435/320.1, 435/410, 435/418, 435/69.1, 435/DIG.1, 435/DIG.14, 435/DIG.15, 435/DIG.17, 435/DIG.2, 435/DIG.3, 435/DIG.4, 435/DIG.5, 536/23.1, 536/23.7

Full Title Citation Front Review Classification Date Reference Sequences Attachinents. Claims KMC Draw De

☐ 4. Document ID: US 6468523 B1

L12: Entry 4 of 15

File: USPT

Oct 22, 2002

US-PAT-NO: 6468523

DOCUMENT-IDENTIFIER: US 6468523 B1

TITLE: Polypeptide compositions toxic to diabrotic insects, and methods of use

DATE-ISSUED: October 22, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Mettus; Anne-Marie Light Feasterville PA
Baum; James A. Doylestown PA

US-CL-CURRENT: <u>424/93.2</u>; <u>424/93.461</u>, <u>514/12</u>, <u>514/2</u>, <u>530/350</u>, <u>530/825</u>

h eb b g ee ef ef g ef b e

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw De

□ 5. Document ID: US 6150165 A

L12: Entry 5 of 15

File: USPT

Nov 21, 2000

US-PAT-NO: 6150165

DOCUMENT-IDENTIFIER: US 6150165 A

\*\* See image for Certificate of Correction \*\*

TITLE: Polynucleotides encoding a 130 kDa pesticidal protein from Bacillus

thuringiensis isolate PS201T6

DATE-ISSUED: November 21, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Payne; Jewel Davis CA
Narva; Kenneth E. San Diego CA
Uyeda; Kendrick Akira San Diego CA
Stalder; Christine Julie San Diego CA
Michaels; Tracy Ellis Ames IA

US-CL-CURRENT: 435/419; 435/252.3, 435/320.1, 536/23.71, 536/24.33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw, De

☐ 6. Document ID: US 5942658 A

L12: Entry 6 of 15 File: USPT Aug 24, 1999

US-PAT-NO: 5942658

DOCUMENT-IDENTIFIER: US 5942658 A

TITLE: Transformed plant with Bacillus thuringiensis toxin gene

DATE-ISSUED: August 24, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Donovan; William P. Levittown PA
Tan; Yuping Falls Township PA
Jany; Christine S. Doylestown PA
Gonzalez, Jr.; Jose M. Ewing Township NJ

US-CL-CURRENT: 800/279; 536/23.71

Full Title Citation Front Review Classification Date Reference Seguences Attachments Claims KMC Draw. De

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☐ 7. Document ID: US 5854053 A

L12: Entry 7 of 15

File: USPT

Dec 29, 1998

US-PAT-NO: 5854053

DOCUMENT-IDENTIFIER: US 5854053 A

TITLE: Bacillus thuringiensis bacteria

DATE-ISSUED: December 29, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Donovan; William P. Levittown PA Gonzalez, Jr.; Jose M. Trenton NJ

US-CL-CURRENT: 435/252.5; 424/93.461, 435/832

## Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw De

#### ☐ 8. Document ID: US 5679343 A

L12: Entry 8 of 15

File: USPT

Oct 21, 1997

Jun 3, 1997

US-PAT-NO: 5679343

DOCUMENT-IDENTIFIER: US 5679343 A

TITLE: <u>Bacillus thuringiensis</u> cryET4 and cryET5 protein insecticidal composition

and method of use

DATE-ISSUED: October 21, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Donovan; William P. Levittown PA
Tan; Yuping Falls Township PA
Jany; Christine S. Doylestown PA
Gonzalez, Jr.; Jose M. Ewing Township NJ

US-CL-CURRENT: 424/93.461; 514/12, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences.	Attachments:	Claims	KWIC	Draws De

#### ☐ 9. Document ID: US 5635480 A

L12: Entry 9 of 15 File: USPT

US-PAT-NO: 5635480

DOCUMENT-IDENTIFIER: US 5635480 A

\*\* See image for Certificate of Correction \*\*

h eb bgeeef efg ef be

TITLE: Bacillus thuringiensis isolates and toxins

DATE-ISSUED: June 3, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Payne; Jewel Davis CA
Narva; Kenneth E. San Diego CA
Uyeda; Kendrick A. San Diego CA
Stalder; Christine J. San Diego CA
Michaels; Tracy E. Ames IA

US-CL-CURRENT: <u>514/12</u>; <u>435/69.1</u>

# Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

#### ☐ 10. Document ID: US 5616319 A

L12: Entry 10 of 15

File: USPT

Apr 1, 1997

US-PAT-NO: 5616319

DOCUMENT-IDENTIFIER: US 5616319 A

TITLE: Bacillus thuringiensis cryET5 gene and related plasmids, bacteria and

insecticides

DATE-ISSUED: April 1, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Donovan; William P. Levittown PA
Tan; Yuping Falls Township PA
Jany; Christine S. Doylestown PA
Gonz alez, Jr.; Jos e M. Ewing Township NJ

US-CL-CURRENT: 424/93.2; 424/93.461, 435/252.3, 435/252.31, 435/320.1, 435/69.1, 435/71.3, 536/23.1, 536/23.71, 536/24.32

Full   Title	:   Citation	Front	Review	Classification	Date	Reference	Sequences	Altachne	rits Claims	KWIC	Draw
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#### Search Results - Record(s) 11 through 15 of 15 returned.

☐ 11. Document ID: US 5378625 A

L12: Entry 11 of 15

File: USPT

Jan 3, 1995

US-PAT-NO: 5378625

DOCUMENT-IDENTIFIER: US 5378625 A

TITLE: Bacillus thuringiensis cryIIIC, (b) protein toxic to coleopteran insects

DATE-ISSUED: January 3, 1995

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Donovan; William P. Levittown PA
Rupar; Mark J. Wilmington DE
Slaney; Annette C. Hamilton Square NJ

•

US-CL-CURRENT: 435/252.5; 424/93.2, 424/93.461, 435/252.3, 435/320.1, 435/69.1, 514/12, 514/2, 530/350, 536/22.1, 536/23.1, 536/23.7, 536/23.71

Full Title Citation Front Review Classification Date Reference Secuences Attachments Claims KMC Draw De

☐ 12. Document ID: US 5356623 A

L12: Entry 12 of 15 File: USPT Oct 18, 1994

US-PAT-NO: 5356623

DOCUMENT-IDENTIFIER: US 5356623 A

TITLE: Bacillus thuringiensis cryET1 toxin gene and protein toxic to lepidopteran

insects

DATE-ISSUED: October 18, 1994

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

von Tersch; Michael A. Ewing Township NJ Gonzalez; Jose M. Ewing Township NJ

US-CL-CURRENT: 424/93.2; 424/93.461, 435/252.3, 435/252.31, 435/320.1, 435/69.1,

536/23.71

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

#### ☐ 13. Document ID: US 5322687 A

L12: Entry 13 of 15

File: USPT

Jun 21, 1994

US-PAT-NO: 5322687

DOCUMENT-IDENTIFIER: US 5322687 A

TITLE: Bacillus thuringiensis cryet4 and cryet5 toxin genes and proteins toxic to

lepidopteran insects

DATE-ISSUED: June 21, 1994

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Donovan; William P. Levittown PA
Tan; Yuping Falls Township, Bucks County PA
Jany; Christine S. Doylestown PA
Gonzalez, Jr.; Jose M. Ewing Township, Mercer County NJ

US-CL-CURRENT: 424/93.461; 435/252.3, 435/252.31, 435/320.1, 435/69.1, 435/71.3,

536/23.71

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ı	Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Altachments	Claims	KMC	Draw, De
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#### ☐ 14. Document ID: US 5264364 A

L12: Entry 14 of 15

File: USPT

Nov 23, 1993

US-PAT-NO: 5264364

DOCUMENT-IDENTIFIER: US 5264364 A

TITLE: Bacillus thuringiensis cryIIIc(B) toxin gene and protein toxic to

coleopteran insects

DATE-ISSUED: November 23, 1993

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Donovan; Willam P. Levittown PA
Rupar; Mark J. Wilmington DE
Slaney; Annette C. Hamilton Square NJ

US-CL-CURRENT: 435/252.5; 435/252.3, 435/320.1, 435/6, 435/69.1, 536/22.1, 536/23.1, 536/23.2, 536/23.7, 536/23.71

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KNNC Draw De

☐ 15. Document ID: US 4713241 A

L12: Entry 15 of 15

File: USPT

Dec 15, 1987

US-PAT-NO: 4713241

DOCUMENT-IDENTIFIER: US 4713241 A

TITLE: Bacterial insecticide and production thereof

DATE-ISSUED: December 15, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wakisaka; Yoshiharu	Hyogo			JP
Uo; Junko	Kyoto			JP
Matsumoto; Kouichi	Osaka			JP
Ohodaira; Osamu	Osaka			JP
Tanaka; Kentaro	Osaka			JP

US-CL-CURRENT: 424/93.461; 424/520, 435/252.5, 435/71.3, 435/832

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Altachme	to Claim	s KOAC	Drawi De
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**Search Results** - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 5554534 A

L2: Entry 1 of 1

File: USPT

Sep 10, 1996

US-PAT-NO: <u>5554534</u>

DOCUMENT-IDENTIFIER: US 5554534 A

\*\* See image for Certificate of Correction \*\*

TITLE: Bacillus thuringiensis toxins active against scarab pests

DATE-ISSUED: September 10, 1996

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Michaels; Tracy E. Ames IA
Narva; Kenneth E. San Diego CA
Foncerrada; Luis Vista CA

US-CL-CURRENT: 435/252.3; 435/252.31, 514/12, 536/23.71

Full	Title Cit.	ation	Front	Review	Classifica	tion   C	ate   R	eference	Sequence	e Ulto	1 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Claims	KWMC	Draw, De
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